



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/527,346

DATE: 02/10/2006

TIME: 09:23:13

Input Set : A:\DM\_US-#8255521-v1-  
 03528\_0146\_PCUS00\_Sequence\_Listing.TXT  
 Output Set: N:\CRF4\02102006\J527346.raw

3 <110> APPLICANT: Affimed Therapeutics AG  
 5 <120> TITLE OF INVENTION: Human CD-3specific antibody with  
 immunosuppressive properties  
 7 <130> FILE REFERENCE: 03528.0146.PCUS00  
 9 <140> CURRENT APPLICATION NUMBER: 10/527,346  
 10 <141> CURRENT FILING DATE: 2005-03-09  
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/010064  
 13 <151> PRIOR FILING DATE: 2003-09-10  
 15 <150> PRIOR APPLICATION NUMBER: EP 02020236.2  
 16 <151> PRIOR FILING DATE: 2002-09-10  
 18 <160> NUMBER OF SEQ ID NOS: 17  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 6  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Artificial  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Peptide linker  
 30 <400> SEQUENCE: 1  
 32 Ser Ala Lys Thr Thr Pro  
 33 1 5  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 10  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Artificial  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: Peptide linker  
 44 <400> SEQUENCE: 2  
 46 Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly  
 47 1 5 10  
 50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 5  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Artificial  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Peptide linker  
 58 <400> SEQUENCE: 3  
 60 Gly Gly Gly Gly Ser  
 61 1 5  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 33  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Artificial

69 <220> FEATURE:

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/527,346

DATE: 02/10/2006  
 TIME: 09:23:13

Input Set : A:\DM\_US-#8255521-v1-  
 03528\_0146\_PCUS00\_Sequence\_Listing.TXT  
 Output Set: N:\CRF4\02102006\J527346.raw

```

70 <223> OTHER INFORMATION: Primer Bi3sk
72 <400> SEQUENCE: 4
73 cagccggcca tggcgcaggt gcaactgcag cag 33
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 36
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Primer Bi9sk
84 <400> SEQUENCE: 5
85 gaagatggat ccagcggccg cagtatcagc ccggtt 36
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 42
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Primer DP1
96 <400> SEQUENCE: 6
97 tcacacagaa ttcttagatc tattaaagag gagaaattaa cc 42
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 40
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Primer DP2
108 <400> SEQUENCE: 7
109 agcacacgat atcaccgcca agcttgggtg ttgttttggc 40
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 34
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Primer OKT_5
120 <400> SEQUENCE: 8
121 tattaagata tcgggtgttg ttttggctga ggag 34
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 32
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Primer 5-NDE
132 <400> SEQUENCE: 9
133 gatatacata tgaaatacct attgcctacg gc 32
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 47
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Primer 3-AFL

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/527,346

DATE: 02/10/2006  
 TIME: 09:23:13

Input Set : A:\DM\_US-#8255521-v1-  
 03528\_0146\_PCUS00\_Sequence\_Listing.TXT  
 Output Set: N:\CRF4\02102006\J527346.raw

```

144 <400> SEQUENCE: 10
145 cgaattctta agtttagcaca ggcctctaga gacacacaga tcttttag      47
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 28
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Primer 5-NAR
156 <400> SEQUENCE: 11
157 caccctggcg cccaatacgc aaaccgcc      28
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 46
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Primer 3-NDE
168 <400> SEQUENCE: 12
169 ggtatttcat atgtatatct ccttcttcag aaattcgtaa tcatgg      46
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 52
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Primer skp-3
180 <400> SEQUENCE: 13
181 cgaattctta agaaggagat atacatatga aaaagtgggtt attagctgca gg      52
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 40
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Primer skp-4
192 <400> SEQUENCE: 14
193 cgaattctcg agcattatctt aacctgtttc agtacgtcgg      40
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 35
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Primer His-Xba
204 <400> SEQUENCE: 15
205 caggcctcta gattagtgat ggtgatgggtg atggg      35
208 <210> SEQ ID NO: 16
209 <211> LENGTH: 6091
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Plasmid pSKK3-scFv6 anti-CD3
216 <400> SEQUENCE: 16

```

## RAW SEQUENCE LISTING

DATE: 02/10/2006

PATENT APPLICATION: US/10/527,346

TIME: 09:23:13

Input Set : A:\DM\_US-#8255521-v1-

03528\_0146\_PCUS00\_Sequence\_Listing.TXT

Output Set: N:\CRF4\02102006\J527346.raw

217	acccgacacc	atcgaatggc	gcaaaacctt	tcgcggtatg	gcatgatagc	gcccggaaga	60
219	gagtcaattc	agggtggtga	atgtgaaacc	agtaacgtta	tacgatgtcg	cagagtatgc	120
221	cgggtgtctc	tatcagaccg	tttcccgcgt	ggtgaaccag	gccagccacg	tttctgcgaa	180
223	aacgcgggaa	aaagtggaa	cggcgatggc	ggagctgaat	tacattccca	accgggtggc	240
225	acaacaactg	gcgggcaaac	agtcgttgct	gattggcggt	gccacctcca	gtctggccct	300
227	gcacgcgcgc	tcgcaaattg	tcgcggcgat	taaatctcgc	gccgatcaac	tgggtgccag	360
229	cgtggtggtg	tcgatggtag	aacgaagcgg	cgtcgaagcc	tgtaaagcgg	cgggtgcacaa	420
231	tcttctcgcg	caacgcgtca	gtgggctgat	cattaactat	ccgctggatg	accaggatgc	480
233	cattgctgtg	gaagctgcct	gcactaatgt	tccggcggtta	tttcttgatg	tctctgacca	540
235	gacacccatc	aacagtatta	ttttctccca	tgaagacggg	acgcgactgg	gcgtggagca	600
237	tctggtcgca	ttgggtcacc	agcaaatcgc	gctgttagcg	ggcccattaa	gttctgtctc	660
239	ggcgcgtctg	cgtctggctg	gctggcataa	atatctcact	cgcaatcaaa	ttcagccgat	720
241	agcggaacgg	gaaggcgact	ggagtgccat	gtccggtttt	caacaaacca	tgcaaatgct	780
243	gaatgagggc	atcgttccca	ctgcgatgct	ggttgccaac	gatcagatgg	cgctgggcgc	840
245	aatgcgcgcc	attaccgagt	ccgggctgcg	cgttggtgcg	gatatctcgg	tagtgggata	900
247	cgacgatacc	gaagacagct	catgttatat	cccgcggtta	accaccatca	aacaggattt	960
249	tcgcctgctg	gggcaaacca	gcgtggaccg	cttgctgcaa	ctctctcagg	gccaggcggt	1020
251	gaagggcaat	cagctgttgc	ccgtctcact	ggtgaaaaga	aaaaccaccc	tggcgcccaa	1080
253	tacgcaaacc	gcctctcccc	gcgcgttggc	cgattcatta	atgcagctgg	cacgacaggt	1140
255	ttcccgaact	gaaagcgggc	agtgagcggg	accgcataaa	agcggcttcc	tgacaggagg	1200
257	ccgttttggt	ttgcagccca	cctcaacgca	attaatgtga	gttagctcac	tcattaggca	1260
259	ccccaggctt	tacactttat	gcttccggct	cgtatgttgt	gtggaattgt	gagcggataa	1320
261	caatttcaca	caggaaacag	ctatgaccat	gattacgaat	ttctgaagaa	ggagatatac	1380
263	atatgaaata	cctattgcct	acggcagccg	ctggcttgct	gctgctggca	gctcagccgg	1440
265	ccatggcgca	ggtgcagctg	cagcagctct	gggctgaact	ggcaagacct	ggggcctcag	1500
267	tgaagatgtc	ctgcaaggct	tctggctaca	cctttactag	gtacacgatg	cactgggttaa	1560
269	aacagaggcc	tggacagggt	ctggaatgga	ttggatacat	taatcctagc	cgtggttata	1620
271	ctaattacaa	tcagaagttc	aaggacaagg	ccacattgac	tacagacaaa	tcctccagca	1680
273	cagcctacat	gcaactgagc	agcctgacat	ctgaggactc	tgcagtctat	tactgtgcaa	1740
275	gatattatga	tgatcattac	agccttgact	actggggcca	aggcaccact	ctcacagtct	1800
277	cctcagccaa	aacaacaccc	gatatcgtgc	tcactcagtc	tccagcaatc	atgtctgcat	1860
279	ctccaggggg	gaaggtcacc	atgacctgca	gtgccagctc	aagtgtaaat	tacatgaact	1920
281	ggtaccagca	gaagtcaggc	acctccccc	aaagatggat	ttatgacaca	tccaaactgg	1980
283	cttctggagt	ccctgctcac	ttcaggggca	gtgggtctgg	gacctcttac	tctctcacia	2040
285	tcagcggcat	ggaggctgaa	gatgctgcca	cttattactg	ccagcagtgg	agtagtaacc	2100
287	cattcacggt	cggctcgggg	acaaagtggg	aaataaaccg	ggctgatact	gcggccgctg	2160
289	gatcccatca	ccatcaccat	cactaatcta	gaggcctgtg	ctaacttaag	aagagatat	2220
291	acatatgaaa	aagtgggttat	tagctgcagg	tctcggttta	gcaactggcaa	cttctgctca	2280
293	ggcggctgac	aaaattgcaa	tcgtcaacat	gggcagcctg	ttccagcagg	tagcgcagaa	2340
295	aaccgggtgt	tctaacacgc	tggaaaatga	gttcaaaggc	cgtgccagcg	aactgcagcg	2400
297	tatggaaacc	gatctgcagg	ctaaaatgaa	aaagctgcag	tccatgaaag	cgggcagcga	2460
299	tcgcactaag	ctggaaaaag	acgtgatggc	tcagcgccag	acttttgctc	agaaagcgca	2520
301	ggcttttgag	caggatcgcg	cacgtcgttc	caacgaagaa	cgcggcaaac	tggttactcg	2580
303	tatccagact	gctgtgaaac	ccgttgccaa	cagccaggat	atcgatctgg	ttgttgatgc	2640
305	aaacgccggt	gcttacaaca	gcagcgatgt	aaaagacatc	actgtcgacg	tactgaaaca	2700
307	ggttaaataa	tgctcgagga	actgctgaaa	catctgaagg	agctgcttaa	aggtgagttc	2760
309	tgataagctt	gacctgtgaa	gtgaaaaatg	gcgcacattg	tgcgacattt	tttttgctcg	2820
311	ccgtttaccg	ctactgcgtc	acggatccgg	ccgaacaaac	tccgggaggc	agcgtgatgc	2880
313	ggcaacaatc	acacggattt	cccgtgaacg	gtctgaatga	gcggattatt	ttcaggggaaa	2940

## RAW SEQUENCE LISTING

DATE: 02/10/2006

PATENT APPLICATION: US/10/527,346

TIME: 09:23:13

Input Set : A:\DM\_US-#8255521-v1-

03528\_0146\_PCUS00\_Sequence\_Listing.TXT

Output Set: N:\CRF4\02102006\J527346.raw

315	gtgagtgtgg	tcagcgtgca	ggtatatggg	ctatgatgtg	cccggcgctt	gaggctttct	3000
317	gcctcatgac	gtgaagggtg	tttgttgccg	tggtgtgtgg	cagaaagaag	atagccccgt	3060
319	agtaagttaa	ttttcattaa	ccaccacgag	gcacccctat	gtctagtcca	catcaggata	3120
321	gcctcttacc	gcgcttttgc	caaggagaag	aaggccatga	aactaccacg	aagtccctt	3180
323	gtctggtgtg	tggtgatcgt	gtgtctcaca	ctggtgatat	tcacttatct	gacacgaaaa	3240
325	tcgctgtgcg	agattcggtt	cagagacgga	cacagggagg	tggcggttt	catggcttac	3300
327	gaatccggta	agtagcaacc	tagaggcggg	cgcaggcccg	ccttttcagg	actgatgctg	3360
329	gtctgactac	tgaagcgctt	ttataaaggg	gctgctgggt	cgccggtagc	ccctttctcc	3420
331	ttgctgatgt	tgtgggaatt	tcgagcaaga	cgtttcccgt	tgaatatggc	tcataacacc	3480
333	ccttgtatta	ctgtttatgt	aagcagacag	ttttattggt	catgatgata	tatttttatc	3540
335	ttgtgcaatg	taacatcaga	gattttgaga	cacaacgtgg	ctttcccccc	ccccctgca	3600
337	gggggggggg	ggcgctgagg	tctgcctcgt	gaagaagggtg	ttgctgactc	ataccaggcc	3660
339	tgaatcgccc	catcatccag	ccagaaagtg	agggagccac	ggttgatgag	agctttgttg	3720
341	taggtggacc	agttgggtgat	tttgaacttt	tgctttgcca	cggaacgggtc	tgctgtgtcg	3780
343	ggaagatgcg	tgatctgggg	atccccacgc	gccctgtagc	ggcgcatata	gcgcggcggg	3840
345	tgtggtgggt	acgcgcagcg	tgaccgctac	acttgccagc	gccctagcgc	ccgctccttt	3900
347	cgttttcttc	ccttcctttc	tcgccacgtt	cgcgggtttt	ccccgtcaag	ctctaaatcg	3960
349	gggcatccct	ttagggttcc	gatttagtgc	tttacggcac	ctcgacccca	aaaaacttga	4020
351	ttaggggtgat	ggttcacgta	gtggggccatc	gccctgatag	acggtttttc	gccctttgac	4080
353	gttgaggtcc	acgttcttta	atagtggact	cttggtccaa	actggaacaa	cactcaaccc	4140
355	tatctcggtc	tattcttttg	atttataagg	gattttgccc	atttcggcct	attggttaaa	4200
357	aaatgagctg	atttaacaaa	aatttaacgc	gaattttaac	aaaatattaa	cgtttacaat	4260
359	ttcagggtggc	gaattccccg	gggaattcac	ttttcgggga	aatgtgcgcg	gaacccctat	4320
361	ttgtttatatt	ttctaaatac	attcaaatat	gtatccgctc	atgagacaat	aaccctgata	4380
363	aatgcttcaa	taatattgaa	aaaggaagag	tatgagtatt	caacatttcc	gtgtcgccct	4440
365	tattcccttt	tttgccgcat	tttgcccttc	tgtttttgct	caccagaaaa	cgctggtgaa	4500
367	agtaaaagat	gctgaagatc	agttgggtgc	acgagtgggt	tacatcgaa	tggatctcaa	4560
369	cagcggtaa	atccttgaga	gttttcgccc	cgaagaacgt	tttccaatga	tgagcacttt	4620
371	taaagttctg	ctatgtggcg	cggtattatc	ccctattgac	gccgggcaag	agcaactcgg	4680
373	tcgccgcata	cactattctc	agaatgactt	ggttgagtac	tcaccagtca	cagaaaagca	4740
375	tcttacggat	ggcatgacag	taagagaatt	atgcagtgtc	gccataacca	tgagtataaa	4800
377	cactgcggcc	aacttacttc	tgacaacgat	cggaggaccg	aaggagctaa	ccgctttttt	4860
379	gcacaacatg	ggggatcatg	taactcgctt	tgatcggttg	gaaccggagc	tgaatgaagc	4920
381	cataccaaac	gacgagcgtg	acaccacgat	gcctgtagca	atggcaacaa	cgttgcgcaa	4980
383	actattaact	ggcgaactac	ttactctagc	ttcccggcaa	caattaatag	actggatgga	5040
385	ggcggataaa	gttgccaggac	cacttctgcy	ctcggccctt	ccggctgggt	ggtttattgc	5100
387	tgataaatct	ggagccgggtg	agcgtgggtc	tcgcggtatc	attgcagcac	tggggccaga	5160
389	tggtaagccc	tcccgtatcg	tagttatcta	cacgacgggg	agtcaggcaa	ctatggatga	5220
391	acgaaataga	cagatcgctg	agatagggtc	ctcactgatt	aagcattggt	aactgtcaga	5280
393	ccaagtttac	tcatatatac	tttagattga	tttaaaactt	catttttaat	ttaaaaggat	5340
395	ctagggtgaag	atcctttttg	ataatctcat	gaccaaatac	ccttaacgtg	agttttcgtt	5400
397	ccactgagcg	tcagaccccg	tagaaaagat	caaaggatct	tcttgagatc	ctttttttct	5460
399	gcgcgtaatc	tgctgcttgc	aaacaaaaaa	accaccgcta	ccagcggtgg	tttgtttgcc	5520
401	ggatcaagag	ctaccaactc	tttttccgaa	ggtaactggc	ttcagcagag	cgcagatacc	5580
403	aaatactgtc	cttctagtgt	agccgtagtt	aggccaccac	ttcaagaact	ctgtagcacc	5640
405	gcctacatac	ctcgctctgc	taatcctgtt	accagtggct	gctgccagtg	gcgataagtc	5700
407	gtgtcttacc	gggttggtact	caagacgata	gttaccggat	aaggcgagc	ggtcgggctg	5760
409	aacggggggg	tcgtgcacac	agcccagctt	ggagcgaacg	acctacaccg	aactgagata	5820
411	cctacagcgt	gagctatgag	aaagcgccac	gcttcccga	gggagaaaag	cggacaggta	5880

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/527,346

DATE: 02/10/2006  
TIME: 09:23:14

Input Set : A:\DM\_US-#8255521-v1-  
03528\_0146\_PCUS00\_Sequence\_Listing.TXT  
Output Set: N:\CRF4\02102006\J527346.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

VERIFICATION SUMMARY

DATE: 02/10/2006

PATENT APPLICATION: US/10/527,346

TIME: 09:23:14

Input Set : A:\DM\_US-#8255521-v1-  
03528\_0146\_PCUS00\_Sequence\_Listing.TXT  
Output Set: N:\CRF4\02102006\J527346.raw